



# TEST REPORT

**Reference No.** ..... : WTF19F11081754A2C

**Applicant** ..... : Mid Ocean Brands B.V.

**Address** ..... : 7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong

**Manufacturer** ..... : 114276

**Sample Name** ..... : Tumbler w bamboo lid cork grip

**Model No.** ..... : MO9896

**Test Requested** ..... : In accordance with Regulation (EU) No 10/2011 with amendments Council of Europe Resolution AP(2002)1, Council of Europe Resolution AP(2004)5 and Regulation (EC) No 1935/2004.

**Test Conclusion** ..... : **Pass** (Please refer to next pages for details)

**Date of Receipt sample** .... : 2019-12-12 & 2019-12-16 & 2019-12-19

**Date of Test** ..... : 2019-12-12 to 2019-12-24

**Date of Issue** ..... : 2019-12-24

**Test Result** ..... : Please refer to next page (s)

**Remark** ..... : Selected test(s) as requested by applicant.

**Remarks:**

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**Prepared By:**

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Compiled by:

*Abby Zhou*

Abby.Zhou / Project Engineer

Approved by:



*Swing Liang*

Swing.Liang / Lab Manager

**Test Results:****1. Overall Migration Test**

Food Simulant	Test Condition	Result (mg/kg)	MDL(mg/kg)	Limit (mg/kg)
		No.1		
3% Acetic Acid	70°C for 2 hours	ND	20	60
10% Ethanol	70°C for 2 hours	ND	20	60
50% Ethanol	70°C for 2 hours	ND	20	60

**Note:**

1. Test method: With reference to BS EN 1186-1: 2002, BS EN 1186-3: 2002, BS EN 1186-9: 2002 and BS EN 1186-14: 2002.
2. "mg/kg" = milligram per kilogram of foodstuff in contact with
3. "°C" = Celsius degree
4. MDL= Method Detection Limit
5. ND = Not Detected, less than MDL
6. The specification was quoted from Council of Europe Resolution AP (2004)5.

Food Simulant	Test Condition	Result (mg/dm <sup>2</sup> )	MDL (mg/dm <sup>2</sup> )	Limit (mg/dm <sup>2</sup> )
		No.2		
10% Ethanol	70°C for 2 hours	ND	3	10
50% Ethanol	70°C for 2 hours	ND	3	10

Food Simulant	Test Condition	Result (mg/dm <sup>2</sup> )	MDL (mg/dm <sup>2</sup> )	Limit (mg/dm <sup>2</sup> )
		No.4		
3% Acetic Acid	70°C for 2 hours	ND	3	10

**Note:**

1. Test method: With reference to BS EN 1186-1: 2002, BS EN 1186-3: 2002, BS EN 1186-9: 2002 and BS EN 1186-14: 2002.
2. "mg/dm<sup>2</sup>" = milligram per square decimetre
3. "°C" = Celsius degree
4. MDL= Method Detection Limit
5. ND = Not Detected, less than MDL
6. The specification was quoted from (EU) No 10/2011 and its amendments (EU) 2016/1416, (EU) 2017/752 and (EU)2019/37.

**2. Bisphenol A Content**

Test Item	Result (mg/kg)		MDL (mg/kg)	Limit (mg/kg)
	No.1	No.2		
Bisphenol A	ND	ND	0.1	Not Detected (<0.1mg/kg)

## Note:

1. Test Method: With reference to EPA3550C:2007, analysis was performed by LC-MS-MS.
2. "mg/kg" = milligram per kilogram
3. MDL= Method Detection Limit
4. ND = Not Detected, less than MDL
5. The specification was quoted from Law No 2012-1442.

**3. Specific Migration of Bisphenol A**

Test Item	Result (mg/kg)		MDL (mg/kg)	Limit (mg/kg)
	No.1	No.2		
Migration of Bisphenol A	ND	ND	0.01	0.05

## Note:

1. Test Method: With reference to CEN/TS 13130-13-2005, sample preparation in 3% acetic acid at 70°C for 2 hours, analysis was performed by HPLC.
2. "mg/kg" = milligram per kilogram of foodstuff in contact with
3. MDL= Method Detection Limit
4. ND = Not Detected, less than MDL
5. The specification was quoted from regulation (EU) No 10/2011 and its amendments (EU) 2018/213.

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**4. Specific Migration of heavy metal (Nickel, Aluminium, Barium, Cobalt, Copper, Iron, Lithium, Manganese, Zinc)**

Test Items	Result (mg/kg)	MDL (mg/kg)	Limit (mg/kg)
	No.2		
Specific migration of Nickel	ND	0.01	0.02
Specific migration of Aluminium	ND	0.1	1
Specific migration of Barium	ND	0.1	1
Specific migration of Cobalt	ND	0.01	0.05
Specific migration of Copper	ND	0.1	5
Specific migration of Iron	ND	0.1	48
Specific migration of Lithium	ND	0.01	0.6
Specific migration of Manganese	ND	0.01	0.6
Specific migration of Zinc	ND	0.1	5

**Note:**

1. Test Method: With reference to BS EN 13130-1: 2004, sample preparation in 3% acetic acid at 70°C for 2 hours, analysis was performed by ICP-OES.
2. "mg/kg" = milligram per kilogram of foodstuff in contact with
3. MDL= Method Detection Limit
4. ND = Not Detected, less than MDL
5. The specification was quoted from (EU) No 10/2011 and its amendments (EU) 2016/1416 and (EU)2017/752.

**5. Specific Migration of Primary Aromatic Amines**

Test Item	Result (mg/kg)	MDL (mg/kg)	Limit (mg/kg)
	No.2		
Migration of Primary aromatic amines	ND	0.01	Not Detected (<0.01mg/kg)

**Note:**

1. Test Method: With reference to § 64 LFGB L No. 00.00-6, analysis was performed by UV-visible Spectrometer.
2. Test Condition and simulant: 3% acetic acid at 70°C for 2 hours.
3. "mg/kg" = milligram per kilogram of foodstuff in contact with
4. MDL= Method Detection Limit
5. ND = Not Detected, less than MDL
6. The specification was quoted from (EU) No 10/2011 and its amendments (EU) 2016/1416 and (EU) 2017/752.

**6. Pentachlorophenol (PCP) Content**

Test Item	Result (mg/kg)		MDL (mg/kg)	Limit (mg/kg)
	No.2	No.4		
Pentachlorophenol (PCP)	ND	ND	0.10	0.15

**Note:**

1. Test method: With reference to LFGB § 64 BVL B 82.02.8-2001, analysis was performed by GC-MS.
2. "mg/kg" = milligram per kilogram
3. MDL= Method Detection Limit
4. ND = Not Detected, less than MDL
5. The specification was quoted from Council of Europe Resolution AP(2002)1.

**7. Specific Migration of Formaldehyde**

Test Item	Result (mg/kg)	MDL (mg/kg)	Limit (mg/kg)
	No.2		
Migration of Formaldehyde	ND	1	15

**Note:**

1. Test Method: With reference to BS EN 13130-1: 2004, sample preparation in 3% acetic acid at 70°C for 2 hours, analysis was performed by UV-visible Spectrometer.
2. "mg/kg" = milligram per kilogram
3. MDL= Method Detection Limit
4. ND = Not Detected, less than MDL
5. The specification was quoted from regulation (EU) No 10/2011.

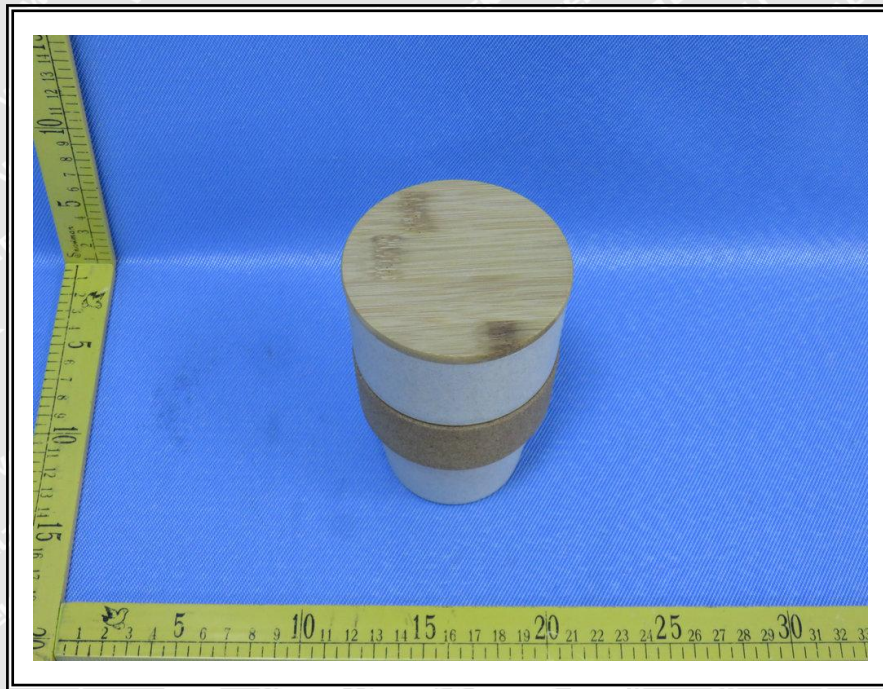
Test Item	Result (mg/kg)	MDL (mg/kg)	Limit (mg/kg)
	No.5		
Migration of Formaldehyde	ND	1	15

**Note:**


1. Test Method: With reference to BS EN 13130-1: 2004, sample preparation in 3% acetic acid at 40°C for 2 hours, analysis was performed by UV-visible Spectrometer.
2. "mg/kg" = milligram per kilogram
3. MDL= Method Detection Limit
4. ND = Not Detected, less than MDL
5. The specification was quoted from regulation (EU) No 10/2011.







**Sample Photo:**



**Photograph of parts tested:**

No.	Photo of testing part	Parts Description	Client Claimed Material
1		Translucent silicone rubber	Silicone rubber



No.	Photo of testing part	Parts Description	Client Claimed Material
2		Beige plastic	PLA mixture with wheatstraw  (Sample received at 2019-12-12)
3		Yellow bamboo	Bamboo  (Sample received at 2019-12-12)
4		Beige plastic	PLA mixture with wheatstraw  (Sample received at 2019-12-19)
5		Yellow bamboo	Bamboo  (Sample received at 2019-12-19)

==== End of Report =====

# Test Report

Report No.: AGC03507191118-001

Date: Nov.25, 2019

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Applicant: MID OCEAN BRANDS B.V  
Address: 7/F, Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong  
Test site: 1,6/F.,Building 2,No.1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang,  
Baoan District, Shenzhen, Guangdong, China

## Report on the submitted samples said to be:

Sample Name : Tumbler w bamboo lid cork grip  
Model : MO9896  
Supplier : 114276  
Country of Origin : CHINA  
Country of Destination : EUROPE  
Manufacturers : 114276  
Sample Receiving Date : Nov.19, 2019  
Testing Period : Nov.19, 2019 to Nov.25, 2019

**Test Requested:** : Please refer to next page(s).

**Test Method** : Please refer to next page(s).

**Test Result** : Please refer to next page(s).

Approved by:   
Liulinwen, Lewis  
Technical Director



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# Test Report

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**Test Requested:**

1. As specified by client, to test sample with reference to Regulation 1935/2004/EC, Regulation (EU) No.10/2011 for  
- Special Migration of Melamine

**Conclusion**

**Pass**

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**No.18 C**

# Test Report

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**Test Result(s):**  
**Special Migration of Melamine**

Unit: mg/kg

Test Item(s)	Test condition/ Equipment	MDL	Test Result(s)	
			3% (w/v) Acetic acid	Limit
			1-1	
Special Migration of Melamine	70°C, 2h/HPLC	0.01	N.D.	2.5
<b>Conclusion</b>	/	/	<b>Pass</b>	/

**Note:** 1. N.D.=not detected (less than method detection limit)  
2. MDL= method detection limit

**Sample Description**

1-1	Cup body
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**The photo of the sample**



**AGC03507191118-001**

AGC authenticate the photo on original report only

\*\*\* End of Report\*\*\*

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